



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENTS

Applicant(s): Joachim Hauber, et al.

Examiner: Unassigned

Serial No: 10/025,367

Art Unit: Unassigned

Filed: December 19, 2001

Docket: 15120

For: COMPOUNDS THAT AFFECT CD83
EXPRESSION, PHARMACEUTICAL
COMPOSITIONS COMPRISING SAID
COMPOUNDS AND METHODS FOR
IDENTIFYING SAID COMPOUNDS

Dated: April 5, 2002

Assistant Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, it is requested that the following references, which are also listed on the attached Form PTO-1449, be made of record in the above-identified case.

1. Felgner P.L. et al., "Lipofection: A Highly Efficient, Lipid-Mediated DNA-Transfection Procedure", Proc. Natl. Acad. Sci. USA 84(21):7413-7417 (1987);
2. Robinow S. et al., "The Elav Gene Product of Drosophila, Required in Neurons, Has Three RNP Consensus Motifs", Science 242:1570-1572 (1988); Genbank accession number M21152;

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner of Patents and Trademarks, Washington, D.C. 20231 on April 5, 2002.

Dated: April 5, 2002


Michelle Mustafa

3. Berger J. et al., "Secreted Placental Alkaline Phosphatase: A Powerful New Quantitative Indicator of Gene Expression in Eukaryotic Cells", Gene **66**:1-10 (1988);
4. Zon, G., "Oligonucleotide Analogues as Potential Chemotherapeutic Agents", Pharmaceutical Research **5**(9):539-549 (1988);
5. Stein C.A. et al., "Oligodeoxynucleotides as Inhibitors of Gene Expression: A Review", Cancer Research **48**:2659-2668 (1988);
6. Helene Claude et al., "Specific Regulation of Gene Expression by Antisense, Sense and Antigene Nucleic Acids", Biochimica et Biophysica Acta **1049**:99-125 (1990);
7. Szabo A. et al., "HUD, a Paraneoplastic Encephalomyelitis Antigen, Contains RNA-Binding Domains and is Homologous to Elav and Sex-Lethal", Cell **67**(2):325-333 (1991); Genbank accession number M62843;
8. Zhou Liang-Ji et al., "A Novel Cell-Surface Molecule Expressed by Human Interdigitating Reticulum Cells, Langerhans Cells, and Activated Lymphocytes is a New Member of the Ig Superfamily", The Journal of Immunology **149**(2):735-742 (1992); Genbank accession number Z11697;
9. International Patent Application No. WO 93/21318, dated October 28, 1993;
10. International Patent Application No. WO 93/23531, dated November 25, 1993;
11. King P.H. et al., "Mammalian Homologs of Drosophila ELAV Localized to a Neuronal Subset Can Bind in vitro to the 3' UTR of mRNA Encoding the Id Transcriptional Repressor", The Journal of Neuroscience **14**(4):1943-1952 (1994); Genbank accession number U12431;
12. Manley T. et al. "Isolation of the Huc Antigen"; (1994); Genbank accession number L26405;
13. King P.H., "Hel-N2: A Novel Isoform of Hel-N1 Which is Conserved in Rat Neural Tissue and Produced in Early Embryogenesis", Gene **151**:261-265 (1994);
14. Goa Fen-Biao et al., "Selection of a Subset of mRNAs from Combinatorial 3' Untranslated Region Libraries Using Neuronal RNA-Binding Protein Hel-N1", Proc. Natl. Acad. Sci. USA **91**:11207-11211 (1994);

15. Zhou Liang-Ji et al., "Human Blood Dendritic Cells Selectively Express CD83, A Member of the Immunoglobulin Superfamily", The Journal of Immunology **154**:3821-3835 (1995);
16. Nagata K. et al., "Replication Factor Encoded by a Putative Oncogene, Set, Associated with Myeloid Leukemogenesis", Proc. Natl. Acad. Sci. U.S.A. **92**(10):4279-4283 (1995); Genbank accession number I59377;
17. International Patent Application No. WO 95/29236, dated November 2, 1995;
18. Good P.J., "A Conserved Family of Elav-Like Genes in Vertebrates", Proc. Natl. Acad. Sci. USA **92**(10):4557-4561 (1995); Genbank accession numbers U17596;
19. Guy-Caffey J.K. et al., "Novel Polyaminolipids Enhance the Cellular Uptake of Oligonucleotides", The Journal of Biological Chemistry **270**(52):31391-31396 (1995);
20. Chen Chyi-Ying A. et al., "AU-Rich Elements: Characterization and Importance in mRNA Degradation", TIBS **20**:465-470 (1995);
21. Liu BA J. et al., "Paraneoplastic Encephalomyelitis Antigens Bind to the AU-Rich Elements of mRNA", Neurology **45**:544-550 (1995);
22. Ma Wei-Jun et al., "Cloning and Characterization of HuR, a Ubiquitously Expressed Elav-Like Protein", The Journal of Biological Chemistry **271**(14):8144-8151 (1996); Genbank accession number U38175;
23. Abe R. et al., "Target Specificity of Neuronal RNA-Binding Protein, Mel-N1: Direct Binding to the 3' Untranslated Region of its Own mRNA", Nucleic Acids Res. **24**(11):2011-2016 (1996); Genbank accession number NM010486;
24. Chen T.H. et al. "Structure of pp32, an Acidic Nuclear Protein Which Inhibits Oncogene-Induced Formation of Transformed Foci", Mol. Biol. Cell (1996); Genbank accession number U73477;
25. Atasoy U. et al., "Generic and Tissue-Specific Forms of Mammalian ELAV Proteins Involved in Growth and Differentiation are Encoded on Distinct mRNAs in Brain and Testes", Unpublished (1996); Genbank accession number U65735;
26. Pollard V.W. et al., "A Novel Receptor-Mediated Nuclear Protein Import Pathway", Cell **86**:985-994 (1996);

27. Kim C.H. et al., "Zebrafish Elav/Huc Homologue as a Very Early Neuronal Marker", Neurosci. Lett. 216(2):109-112 (1996); Genbank accession number U62018;
28. International Patent Application No. WO 97/29781, dated August 21, 1997;
29. Freier S.M. et al., "The Ups and Downs of Nucleic Acid Duplex Stability: Structure-Stability Studies on Chemically-Modified DNA:RNA Duplexes", Nucleic Acids Research 25(22):4429-4443 (1997);
30. Vives E. et al., "A Truncated HIV-1 Tat Protein Basic Domain Rapidly Translocates Through the Plasma Membrane and Accumulates in the Cell Nucleus", The Journal of Biological Chemistry 272(25):16010-16017 (1997);
31. Wakamatsu Y. et al., "Sequential Expression and Role of Hu RNA-Binding Proteins During Neurogenesis", Development 124:3449-3460 (1997); Genbank accession number AF176673;
32. Antic D. et al., "Insights From Model Systems: Embryonic Lethal Abnormal Visual RNA-Binding Proteins Involved in Growth, Differentiation, and Posttranscriptional Gene Expression", Am. J. Hum. Genet. 61:273-278 (1997);
33. Inman M.V. et al., "Gene Organization and Chromosome Location of the Neural-Specific RNA Binding Protein ELAV14", Gene 208(2):139-145 (1998); Genbank accession number NM010488;
34. Atasoy U. et al., "ELAV Protein HuA (HuR) Can Redistribute Between Nucleus and Cytoplasm and is Upregulated During Serum Stimulation and T Cell Activation", Journal of Cell Science 111:3145-3156 (1998);
35. Fan X.C. et al., "HNS, A Nuclear-Cytoplasmic Shuttling Sequence in HuR", Proc. Natl. Acad. Sci. USA 95:15293-15298 (1998);
36. Schatz O. et al., "Interaction of the HIV-1 Rev Cofactor Eukaryotic Initiation Factor 5A with Ribosomal Protein L5", Proc. Natl. Acad. Sci. USA 95:1607-1612 (1998);
37. Blair W.S. et al., "Utilization of a Mammalian Cell-Based RNA Binding Assay to Characterize the RNA Binding Properties of Picornavirus 3C Proteinases", RNA 4:215-225 (1998);
38. Banchereau J. et al., "Dendritic Cells and the Control of Immunity", Nature 392:245-252 (1998);

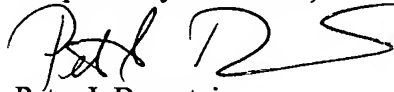
39. Benimetskaya L. et al., "Cationic Porphyrins: Novel Delivery Vehicles for Antisense Oligodeoxynucleotides", Nucleic Acids Research **26**(23):5310-5317 (1998);
40. Escriou V. et al., "Cationic Lipid-Mediated Gene Transfer: Effect of Serum on Cellular Uptake and Intracellular Fate of Lipopolyamine/DNA Complexes", Biochimica et Biophysica Acta **1368**(2):276-288 (1998);
41. Mencinger M. et al., "Expression Analysis and Chromosomal Mapping of a Novel Human Gene, APRIL, Encoding an Acidic Protein Rich in Leucines", Biochim. Biophys. Acta **1395**(2):176-180 (1998); Genbank accession number Y07969;
42. Inman M.V. et al., "Gene Organization and Chromosome Location of the Neural-Specific RNA Binding Protein Elav14", Gene **208**(2):139-145 (1998); Genbank accession number NM010488;
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44. Bolton S.J. et al., "Cellular Uptake and Spread of the Cell-Permeable Peptide Penetratin in Adult Rat Brain", European Journal of Neuroscience **12**(8):2847-2855 (2000);
45. Fischer P.M. et al., "Structure-Activity Relationship of Truncated and Substituted Analogues of the Intracellular Delivery Vector Penetratin", J. Peptide Res. **55**(2):163-172 (2000);
46. Kruse M. et al., "Inhibition of CD83 Cell Surface Expression During Dendritic Cell Maturation by Interference with Nuclear Export of CD83 mRNA", J. Exp. Med. **191**(9):1581-1589 (2000);
47. Bhorade R. et al., "Macrocyclic Chelators with Paramagnetic Cations are Internalized into Mammalian Cells Via a HIV-Tat Derived Membrane Translocation Peptide", Bioconjugate Chem **11**(3):301-305 (2000);
48. Berchtold S. et al., "Cloning, Recombinant Expression and Biochemical Characterization of the Murine CD83 Molecule, Which is Specifically Up-Regulated During Dendritic Cell Maturation", Unpublished (2000); Genbank accession number NM009856;
49. Park H.C. et al., "Structural Comparison of Zebrafish Elav/Hu and Their Differential Expressions During Neurogenesis", Neurosci. Lett. **279**(2):81-84 (2000); Genbank accession numbers AF184244, AF184245; and

50. Atasoy U. et al., "Generic and Tissue-Specific Forms of Mammalian ELAV Proteins Involved in Growth and Differentiation are Encoded on Distinct mRNAs in Brain and Testes", Unpublished (2000); Genbank accession number NM010485;

Applicants are submitting a copy of the above-cited references.

Inasmuch as this Information Disclosure Statement is being submitted in accordance with the schedule set out in 37 C.F.R. § 1.97(b), no statement or fee is required.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Peter I. Bernstein", written over a horizontal line.

Peter I. Bernstein

Registration No.: 43,497

Scully, Scott, Murphy & Presser
400 Garden City Plaza
Garden City, New York 11530
(516) 742-4343

PIB:dg

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT**(Under 37 CFR 1.97(b) or 1.97(c))**

Docket No.

15120

In Re Application Of: Joachim Hauber, et al.

APR 09 2002

Serial No.

10/025,367

Filing Date

December 19, 2001

Examiner

Unassigned

Group Art Unit

Unassigned

Title:

COMPOUNDS THAT AFFECT CD83 EXPRESSION, PHARMACEUTICAL COMPOSITIONS COMPRISING SAID COMPOUNDS AND METHODS FOR IDENTIFYING SAID COMPOUNDS

Address to:

**Assistant Commissioner for Patents
Washington, D.C. 20231****37 CFR 1.97(b)**

1. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application; within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or before the mailing date of a first Office Action on the merits, whichever event occurs last.

37 CFR 1.97(c)

2. ☐ The Information Disclosure Statement submitted herewith is being filed after three months of the filing of a national application, or the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or after the mailing date of a first Office Action on the merits, whichever occurred last but before the mailing date of either:

1. a Final Action under 37 CFR 1.113, or
2. a Notice of Allowance under 37 CFR 1.311,

whichever occurs first.

Also submitted herewith is:

- ☐ a certification as specified in 37 CFR 1.97(e);

OR

- ☐ the fee set forth in 37 CFR 1.17(p) for submission of an Information Disclosure Statement under 37 CFR 1.97(c).

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT

(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.

15120

In Re Application Of: Joachim Hauber, et al.

Serial No.

10/025,367

Filing Date

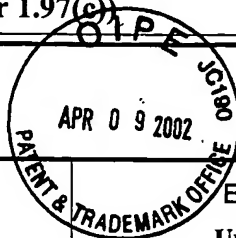
December 19, 2001

Examiner

Unassigned

Group Art Unit

Unassigned



Title:

COMPOUNDS THAT AFFECT CD83 EXPRESSION, PHARMACEUTICAL COMPOSITIONS COMPRISING SAID COMPOUNDS AND METHODS FOR IDENTIFYING SAID COMPOUNDS**Payment of Fee**

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☐ A check in the amount of _____ is attached.
- ☒ The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. 19-1013/SSMP as described below. A duplicate copy of this sheet is enclosed.
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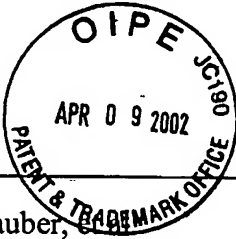
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Dated: April 5, 2002


Peter I. Bernstein
Registration No. 43,497
SCULLY, SCOTT, MURPHY & PRESSER
400 Garden City Plaza
Garden City, NY 11530
(516) 742-4343


PIB:dg

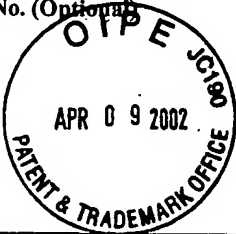
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Form PTO-1449 U.S. DEPARTMENT OF COMMERCE (REV. 7-80) PATENT AND TRADEMARK OFFICE LIST OF PRIOR ART CITED BY APPLICANT <i>(Use several sheets if necessary)</i>		Atty. Docket No. (Optional) 15120	Application Number 10/025,367				
							
		Applicant(s) Joachim Hauber,					
		Filing Date December 19, 2001	Group Art Unit Unassigned				
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL*		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (if appropriate)
	AA						
	AB						
FOREIGN PATENT DOCUMENTS							
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
	<input checked="" type="checkbox"/>	WO 93/21318	10/28/93	PCT			
	<input checked="" type="checkbox"/>	WO 93/23531	11/25/93	PCT			
	<input checked="" type="checkbox"/>	WO 95/29236	11/2/95	PCT			
	<input checked="" type="checkbox"/>	WO 97/29781	8/21/97	PCT			
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	<input checked="" type="checkbox"/>	Felgner P.L. et al., "Lipofection: A Highly Efficient, Lipid-Mediated DNA-Transfection Procedure", <u>Proc. Natl. Acad. Sci. USA</u> 84(21):7413-7417 (1987)					
	<input checked="" type="checkbox"/>	Robinow S. et al., "The Elav Gene Product of Drosophila, Required in Neurons, Has Three RNP Consensus Motifs", <u>Science</u> 242:1570-1572 (1988); Genbank accession number M21152					
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	<input checked="" type="checkbox"/>	Zon, G., "Oligonucleotide Analogues as Potential Chemotherapeutic Agents", <u>Pharmaceutical Research</u> 5(9):539-549 (1988)					
	<input checked="" type="checkbox"/>	Stein C.A. et al., "Oligodeoxynucleotides as Inhibitors of Gene Expression: A Review", <u>Cancer Research</u> 48:2659-2668 (1988)					
EXAMINER				DATE CONSIDERED			
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		Szabo A. et al., "HUD, a Paraneoplastic Encephalomyelitis Antigen, Contains RNA-Binding Domains and is Homologous to Elav and Sex-Lethal", <u>Cell</u> 67(2):325-333 (1991); Genbank accession number M62843	
		Zhou Liang-Ji et al., "A Novel Cell-Surface Molecule Expressed by Human Interdigitating Reticulum Cells, Langerhans Cells, and Activated Lymphocytes is a New Member of the Ig Superfamily", <u>The Journal of Immunology</u> 149(2):735-742 (1992); Genbank accession number Z11697	
		King P.H. et al., "Mammalian Homologs of Drosophila ELAV Localized to a Neuronal Subset Can Bind in vitro to the 3' UTR of mRNA Encoding the Id Transcriptional Repressor", <u>The Journal of Neuroscience</u> 14(4):1943-1952 (1994); Genbank accession number U12431	
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		King P.H., "Hel-N2: A Novel Isoform of Hel-N1 Which is Conserved in Rat Neural Tissue and Produced in Early Embryogenesis", <u>Gene</u> 151:261-265 (1994)	
		Gao Fen-Biao et al., "Selection of a Subset of mRNAs from Combinatorial 3' Untranslated Region Libraries Using Neuronal RNA-Binding Protein Hel-N1", <u>Proc. Natl. Acad. Sci. USA</u> 91:11207-11211 (1994)	
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		Nagata K. et al., "Replication Factor Encoded by a Putative Oncogene, Set, Associated with Myeloid Leukemogenesis", <u>Proc. Natl. Acad. Sci. U.S.A.</u> 92(10):4279-4283 (1995); Genbank accession number I59377	
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		Fan X.C. et al., "HNS, A Nuclear-Cytoplasmic Shuttling Sequence in HuR", <u>Proc. Natl. Acad. Sci. USA</u> 95:15293-15298 (1998)	
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		Banchereau J. et al., "Dendritic Cells and the Control of Immunity", <u>Nature</u> 392:245-252 (1998)	
		Benimetskaya L. et al., "Cationic Porphyrins: Novel Delivery Vehicles for Antisense Oligodeoxynucleotides", <u>Nucleic Acids Research</u> 26(23):5310-5317 (1998)	
		Escρίου V. et al., "Cationic Lipid-Mediated Gene Transfer: Effect of Serum on Cellular Uptake and Intracellular Fate of Lipopolyamine/DNA Complexes", <u>Biochimica et Biophysica Acta</u> 1368(2):276-288 (1998)	
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Form PTO-1449 U.S. DEPARTMENT OF COMMERCE (REV. 7-80) PATENT AND TRADEMARK OFFICE		Atty. Docket No. (Optional) 15120	Application Number 10/025,367
LIST OF PRIOR ART CITED BY APPLICANT <i>(Use several sheets if necessary)</i>			
		Applicant(s) Joachim Hauber, et al.	
Group Art Unit Unassigned			
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>			
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		Bolton S.J. et al., "Cellular Uptake and Spread of the Cell-Permeable Peptide Penetratin in Adult Rat Brain", <u>European Journal of Neuroscience</u> 12 (8):2847-2855 (2000)	
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		Berchtold S. et al., "Cloning, Recombinant Expression and Biochemical Characterization of the Murine CD83 Molecule, Which is Specifically Up-Regulated During Dendritic Cell Maturation", (2000); Genbank accession number NM009856	
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